

PANELBOARD NOTES ( )	
(1)	KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).
(2)	TERMINATE GROUND ON ISOLATED GROUND BUS.
(3)	ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, CONTROLLED BY TIMECLOCK. REFER TO DETAILS, SHEET 11/E-400.
(4)	WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.
(5)	REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
(6)	GFCI BREAKER
(7)	INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).

PNL A										PANELBOARD										208Y/120V, 3PH, 4W 400A M.L.O.			
MOUNTING: FLUSH WALL MOUNT										(NEW)										SERIES RATED 65/10K A.I.C.			
LOCATION: ELEC. CABINET										INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED										GROUND BUS			
TYPE: BOLT ON W/GROUND BUS																				ISOLATED GROUND			
NEMA RATING: 1																							
		DESCRIPTION		WIRE		BRKR		PL		KVA			PL		BRKR		WIRE		DESCRIPTION				
										A		B		C									
1	WIC DISPLAY LTS/MENUBRD/LED	12	20	1		0.33	1.00								1	20	12	FAX '87, MGR '84C, COMP '49A'		2			
3	HOOD CONT'L PNL 'M4'	12	20	1			0.50	0.60							1	20	12	MUSIC, VCR, MONITOR		4			
5	SERVICE POS 34, PTR '86A(2,6)	12	20	1						1.10	0.50				1	20	12	COMPUTER RECP '83A' (2)		6			
7	D.THRU POS '34/PTRS '86A(2,6)	12	20	1	1.10	0.13									1	20	12	10J ICE MACHINE (6)		8			
9	95-4-S3, FLY LT.C02 (1,6)	12	20	1		0.82	1.41								2	20	12	CHF-25 'M10' AIR CURTAIN		10			
11	RICE WARMER '54A' (1,4)	12	20	1					0.11	1.41										12			
13	REF. PREP TABLE '34O' (1)	12	20	1	1.80	1.18									1	20	12	REAR DOOR - FLY FAN 'M8A'		14			
15	REF. PREP TABLE '34O' (1)	12	20	1		1.08	0.10								1	20	12	FIRE SUPPRES SHUTDOWN		16			
17	UNDER CTR FRZR '30L' (1,4)	10	20	1						1.08	1.18				1	20	12	SIDE DOOR - FLY FAN 'M8C'		18			
19	BEVERAGE DISP.'4AB'(1)	12	20	1	1.12	1.30									1	20	10	INDUCT WELL 3F, 3G (1,4,6)		20			
21	SERVING COUNTER	12	20	1		0.10	1.30								1	20	10	INDUCT WELL 3F, 3G (1,4,6)		22			
23	ICE TEA BREWER '9D'	12	20	1						1.78	1.30				1	20	10	INDUCT WELL 3F, 3G (1,4,6)		24			
25	FOOD PROCESSOR '53'	12	20	1	1.20	1.30									1	20	10	INDUCT WELL 3F, 3G (1,4,6)		26			
27	ELEC. DOOR EQUIPMENT	12	20	1		0.72	1.30								1	20	10	INDUCT WELL 3F, 3G (1,4,6)		28			
29	WALK-IN COOLER COIL '31M'(1)	12	20	1						0.24	1.30				1	20	10	INDUCT WELL 3F, 3G (1,4,6)		30			
31	RICE HOLD CAB '24H' (1,4,6)	10	20	1	1.78	1.30									1	20	10	INDUCT WELL 3F, 3G (1,4,6)		32			
33	FUTURE CONTROLS (1,6)	12	20	1		0.20	0.84								1	20	12	RAD TOP HEATER '1S2B1' (1)		34			
35	TIMECLOCK	12	20	1						0.01	1.10				1	20	10	RAD TOP HEATER '1S2B2' (1)		36			
37	4B' BOOSTER OUTLET (6)	12	20	1	0.86	1.10									1	20	12	RAD TOP HEATER '1S2B2' (1)		38			
39	HEAT WRAP '32-S7 (4)	12	20	1		0.50									1	20	12	SPARE		40			
41	FLY LIGHT (6)	12	20	1						0.18	1.52				2	20	12	THAWING CABINET		42			
43	DUCT DETECTORS	12	20	1	0.20	1.52									1	20	12			44			
45	LTO-FOOD PRP/REF3 (4)	10	20	1		1.13	1.46								1	20	12	10L ICE MACHINE		46			
47	LTO DINING AREA	12	20	1						0.25	1.40				2	15	12	MICROWAVE - 95A (1)		48			
49	SHOW WINDOW RECEPS	12	20	1	0.90	1.40									1	20	12	FUTURE EQUIPMENT		50			
51	GENERAL RECEPS	12	20	1		0.72	0.18								1	20	12	SPARE		52			
53	EXTERIOR RECEPS	12	20	1						0.36					1	20	12			54			
55	GREASE REMOVAL	12	20	1	0.18	1.23									2	20	12	ICE MACHINE COND. '10J-S' (1)		56			
57	10J ICE MACHINE (6)	12	20	1		0.13	1.23													58			
59	GAS WATER HEATER - P3, (6)	12	20	1						0.96	3.12				2	40	8	WALKIN FRZR COND. '32-S1'(1,7)		60			
61	ICE TEA BREWER '9D' (1,4)	10	20	1	1.78	3.12														62			
63	LTO - RESTRMS	12	20	1		0.07	3.64								2	35	10	WALK IN COOL COND '31-S' (1)		64			
65	SPARE	12	20	1																66			
67	DT WINDOW 'M8A' AIR CURTAIN	12	20	1	0.50	6.24									3	60	4	RTU-3 (LENNOX)		68			
69	DRIVE THRU HOT WELL CABINET	6	50	2		2.20	6.24													70			
71						2.20	6.24													72			
73	ELECTRIC GRIDDLE - '23E' (1,6)	6	50	2	3.79	6.24									3	60	4	RTU-2 (LENNOX)		74			
75						3.79	6.24													76			
77	SPARE	12	20	1																78			
79	SPACE					3.60									3	45	6	RTU-1 (LENNOX)		80			
81	SPACE						3.60													82			
83	SPACE							3.60												84			
PANELBOARD TOTALS CALCULATED					TOTAL		46.18		40.09		40.80		KVA										
PER NEC ARTICLE 220							385		335		341		AMPS										
TOTAL LOAD					127.08		KVA				353		AMPS										
FEEDER LOAD					110.78		KVA				308		AMPS										

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

PNL B

MOUNTING: FLUSH WALL MOUNT

LOCATION: ELEC. CABINET

TYPE: BOLT ON W/GROUND BUS

NEMA RATING: 1

PANELBOARD

(NEW)

INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS NOT ALLOWED

208Y/120V, 3PH, 4W

225A M.L.O.

SERIES RATED 65/10K A.I.C.

GROUND BUS

	DESCRIPTION	WIRE	BRKR	PL	KVA						PL	BRKR	WIRE	DESCRIPTION	
					A		B		C						
1	BUILDING SIGN/LOGO (3)	12	20	1	1.00	1.23					2	20	10	ICE MACHINE COND. '10J-S1' (4)	2
3	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1		1.04	1.23								4
5	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1				0.45	0.90		1	20	12	21B MJ345 FRYER (1,6)	6
7	TICKET PRINTER	12	20	1	0.22	5.64					3	60	6	POT WASHER	8
9	BEV. DISPENSER 4AB (1,4)	10	20	1		1.12	5.64								10
11	SECURITY/POS MONITORS	12	20	1					0.10	5.64					12
13	HYPERACTIVE TIMER SYS.	12	20	1	0.10	1.50					1	20	10	MENUBOARD (3,4)	14
15	SIGN DISPLAY	12	20	1		0.26	1.00				1	20	10	DR THRU ORDER SCREEN (4)	16
17	EXTERIOR POLE MOUNT LTG (3,4)	10	20	1				0.59						SPACE	18
19	COKE CARBONATOR	12	20	1	0.20	2.57					3	30	10	CU-2	20
21	MONUMENT SIGN (3,4)	10	20	1		0.50	2.57								22
23	BUILDING LTG/EM (3)	12	20	1				0.10	2.57						24
25	MENUBOARD (3,4)	10	20	1	1.50	0.71					3	15	12	EF-1	26
27	DR THRU ORDER SCREEN (4)	10	20	1		1.00	0.71								28
29	RTU CONVENIENCE OUTLETS	12	20	1				0.54	0.71						30
31	CANOPY LIGHTING (3)	12	20	1	0.13	0.71					3	15	12	EF-2	32
33	CANOPY LIGHTING (3)	12	20	1		0.13	0.71								34
35	EXTERIOR MOTION SECURITY LED	12	20	1					0.71						36
37	CU-1	10	30	3	2.57	2.40					3	30	10	MAU-1	38
41						2.57	2.40								42
PANELBOARD TOTALS CALCULATED					TOTAL	20.46		20.86		17.26		KVA			
PER NEC ARTICLE 220						171		174		144		AMPS			
TOTAL LOAD						58.58		KVA		163		AMPS			
FEEDER LOAD						59.92		KVA		167		AMPS			



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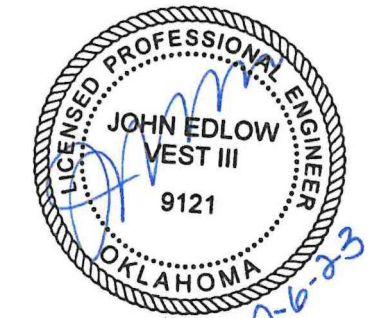
PERMIT	02-06-22

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PANDA PROJECT #: D24283  
PANDA STORE #: -  
ARCH PROJECT #: 261-457



MPW ENGINEERING, LLC  
CERTIFICATE OF AUTHORIZATION #2084 • EXP. 06/30/2023  
1110 W. 7TH STREET • SUITE 600 • TULSA, OK 74119  
(918) 580-4088 • (918) 580-4087 FAX



PANDA EXPRESS  
PANDA HOME 2600  
E STATE HWY 152 & N HUNKER TERRACE  
MUSTANG, OK

E-601

PANELS, SINGLE LINE, LOAD CALC'S

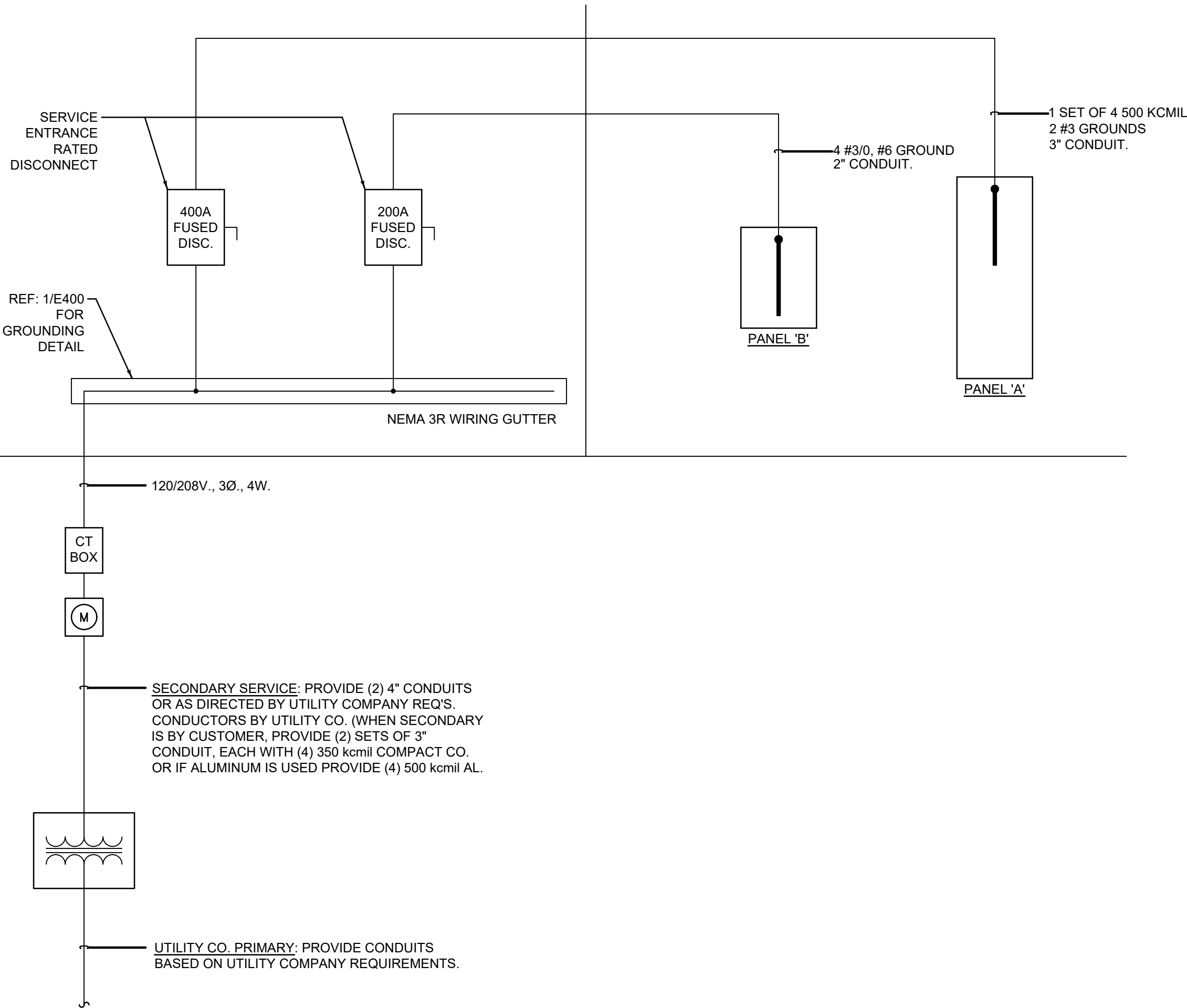
PANDA HOME 2600 R4

- UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
- CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
- ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
- THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.
- E.C. SHALL PROVIDE GROUNDING PER NEC ARTICLE 250, RE: 1/E400 FOR ADDITIONAL INFORMATION.

SINGLE LINE DIAGRAM GENERAL NOTES	3
NOT TO SCALE	E-601

- ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
- NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
- A TWO TIER 65000/10000 AIC SERIES RATING SYSTEM IS SPECIFIED BETWEEN THE SES MAINS FUSES AND THE PANEL BRANCH CIRCUIT BREAKERS, NO SUBSTITUTIONS - UNLESS A FULLY RATED SYSTEM IS PROVIDED.
- MOTOR CONTRIBUTION TO THE FAULT CURRENT IS LESS THAN 1% OF THE INTERRUPTING RATING OF THE DOWNSTREAM CIRCUIT BREAKER(S).
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABELS AT ALL COMPONENTS OF THE SERIES PROTECTED SYSTEM; AT PANEL 'A' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 21,572 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED", AT PANEL 'B' STATING "CAUTION - 65/10 SERIES COMBINATION SYSTEM RATED 20,985 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED". IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"
- EQUIPMENT SUPPLIER TO PROVIDE CUT SHEETS OF ALL SERIES RATED COMPONENTS (I.E. FUSES, CIRCUIT BREAKERS) HI-LIGHTING EACH ITEM AND THE SPECIFIC LISTING/TESTING OF EACH ITEM'S SERIES RATING WITH THE OTHER.
- POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.

SERIES RATING NOTES	4
NOT TO SCALE	E-601



PANEL SCHEDULES		1
NOT TO SCALE		E-601

ELECTRICAL SERVICE ENTRANCE COORDINATION				
NEW SERVICE REQUIRED: 600A, 120/208V, 3 PHASE, 4 WIRE			UTILITY COMPANY: XXXXXXXXXXXXXXXXXXXX	
SERVICE TO BUILDING ROUTED: TBD			NAME OF CONTACT: XXXXXXXXXXXXXXXXXXXX	
AVAILABLE FAULT CURRENT: TBD			PHONE: (XXX)---XXX-XXXX	
METERING LOCATION: EXTERIOR BUILDING			EMAIL: XXXXXXXXXXXX@XXXXX.com	
ITEMS	CONTRACTOR		UTILITY COMPANY	
	FURNISHED BY	INSTALLED BY	FURNISHED BY	INSTALLED BY
PRIMARY CONDUCTORS			X	X
PRIMARY TERMINATIONS			X	X
PRIMARY CONDUIT(S)	X	X		
PRIMARY TRENCH/BACKFILL	X	X		
TRANSFORMER --(CONTRACTOR TO PROVIDE PAD PER/UTILITY REQ'S.)			X	X
SECONDARY CONDUCTORS (FROM XFMR TO UTILITY METER)	X	X		
SECONDARY TERMINATIONS @ TRANSFORMER (GC PROVIDE LUGS)			X	X
SECONDARY TERMINATIONS @ SERVICE ENTRANCE	X	X		
SECONDARY CONDUIT	X	X		
SECONDARY TRENCH/BACKFILL	X	X		
METERING CT'S - TO BE DETERMINED BY UTILITY			X	X
METER HOUSING - PROVIDED BY UTILITY TO CONTRACTOR AT NO CHARGE	X	X		
CONTRACTOR NOTE:				
1. CONTRACTOR TO FIELD VERIFY AND COORDINATE THEIR RESPONSIBILITIES FOR ELECTRICAL SERVICE ENTRANCE WITH ELECTRICAL SERVICE PROVIDER; AND PROVIDE BID WITH ALL ASSOCIATED COSTS WITH NO ADDITIONAL COST TO OWNER.				